

REMARKS

Applicant requests reconsideration and allowance of the present application in view of the foregoing amendments and the following remarks.

Claims 1-11, 13-16, 18-20, and 22-26 are pending in the present application. Claims 1, 14, 16, 19, 23, and 25 are the independent claims.

Claims 12, 17, and 21 have been cancelled without prejudice to or disclaimer of the subject matter recited therein. Claims 1, 6-11, 13-16, 18, 19, 22, 23, and 25 have been amended. No new matter is believed to have been added.

Initially, Applicant acknowledges with appreciation the indication that claims 7-10, 12-15, 17, 18, 21, and 22 recite patentable subject matter and would be allowable if rewritten in independent form to include all of the features of their respective base claims and any intervening claims and to address various objections and, regarding claims 8, 10, 12, 15, and 22, amended to address a rejection under the second paragraph of 35 U.S.C. § 112. By the present Amendment, Applicant has amended the claims to address the objections and the rejection under 35 U.S.C. § 112. Applicant has respectfully maintained claims 7-10 in dependent form because it is believed that their base claim, independent claim 1, patentably defines over the citations of record. However, Applicant has also cancelled claims 12, 17, and 21 and amended independent claims 11, 16, and 19 to respectively recite features of claims 12, 17, and 21. Further, applicant has amended independent claims 23 and 25 to respectively recite features of claims 21 and 17. Still further, applicant has also rewritten claim 14 in independent form. Claims 13, 15, 18, 20, 22, 24 and 26 depend either directly or indirectly from independent claims 11, 14, 16, 19, 23, and 25. Thus, it is respectfully submitted that claims 11, 13-16, 18-20, and 22-26 are now in allowable form.

The Office Action objected to claim 1 on formal grounds. In response, Applicant has amended claim 1 in view of the Examiner's comments.

Favorable consideration is respectfully requested.

Claims 5, 6, 8, 10, 12, 13, and 22 stand rejected under the second paragraph of 35 U.S.C. § 112. In response to this rejection, Applicant has amended claims 5, 6, 8, 10, 13, and 22 in view of the Examiner's specific comments. However, regarding claim 12, the recitation of "the resolution" was not found.

Accordingly, favorable reconsideration and withdrawal of the rejection of claim 5, 6, 8, 10, 12, 13, and 22 under 35 U.S.C. § 112, second paragraph, are respectfully requested.

Claims 1-4 and 6 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,727,192 (Baldwin). Claims 5, 11, 16, 19, 20, 23 and 25 stand under 35 U.S.C. § 103(a) as being unpatentable over Baldwin in view of U.S. Patent No. 6,100,906 (Asaro). All rejections are respectfully traversed.

Independent claim 1 recites, inter alia, a second memory substituted for a first memory when a difference between a data reading rate and a data writing rate yields an unstable distance between a reading address and a writing address.

However, Applicant respectfully submits that none of the asserted citations teach or suggest at least the aforementioned feature of independent claim 1.

Baldwin relates to a serial rendering system with auto-synchronization on frame blanking and describes a technique for smooth animation by rendering only an undisplayed back buffer and then copying data from the back buffer to a front buffer once rendering is complete. (Baldwin, Col. 6, lines 14-18). Baldwin goes on to explain that when blocks of data are moved around different buffers, a linear offset is added to a destination address. (Baldwin, Col. 39, lines 23-35).

The Office Action contends that this teaching of moving data between buffers without overwriting data anticipates the aforementioned feature of independent claim 1. This contention is respectfully traversed.

Baldwin is silent as to substituting a second memory for a first based on the presence of an unstable distance between the reading address and the writing address due to a difference between a data reading rate and a data writing rate. This absence is not surprising since Baldwin seeks to prevent overwriting of rendered data on a front buffer before current rendered data stored on the front buffer is displayed. Indeed, it is for this reason that Baldwin teaches suspending writing to the front buffer during the display of rendered data stored on the front buffer. (Baldwin, Abstract).

Asaro et al. relates to a method and apparatus for improved double buffering and is cited for its alleged teaching of calculating an offset for double buffering using a data reading rate, a data writing rate, and a resolution of a display. However, Applicant respectfully submits that Asaro et al. does not add anything to the teachings of Baldwin that would remedy the aforementioned deficiency.

Accordingly, favorable reconsideration and withdrawal of the rejection of independent claim 1 under 35 U.S.C. § 102 are respectfully requested.

In view of the foregoing, Applicant respectfully submits that the independent claims patentably define the present invention over the citations of record. Further, the dependent claims should also be allowable for the same reasons as their respective base claims and further due to the additional features that they recite. Separate and individual consideration of the dependent claims is respectfully requested.

Applicant believes that the present Amendment is responsive to each of the points raised by the Examiner in the Official Action. However, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to such matters.

There being no further outstanding objections or rejections, it is submitted that the present application is in condition for allowance. An early action to that effect is courteously solicited.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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Date: July 12, 2005

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